

IN THE CLAIMS

Please amend claim 15 and 30 as follows.

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Claim 15 (Amended). A purified and isolated DNA sequence coding for procaryotic or eucaryotic host expression of a polypeptide having the primary structural conformation and biological properties of metalloproteinase inhibitor, wherein said primary structural conformation comprises as a mature protein an amino acid sequence at its amino terminal end at least the amino acid residues 1 to 42 of Figure 2.

In claim 30, line 9, after "desired" and before "polypeptide", please insert --metalloproteinase inhibitor--.

REMARKS

Applicants have amended claim 15 to specify more precisely the identity of the polypeptide used in the method of the present invention. Specifically, it is delineated that the polypeptide used has characteristics of (a) a distinct amino terminal amino acid sequence, and/or (b) specific biological activities of human metalloproteinase inhibitor. The distinct amino terminal amino acid sequence is supported in the specification at page 41, line 33 to page 42, line 5 and Figures 8 and 9, wherein the fragment corresponding to the first 42 amino acids of the mature naturally-occurring human metalloproteinase inhibitor was produced recombinantly. Of course, the full length mature metalloproteinase inhibitor was also obtained both recombinantly (Examples 4, 5, 7, and 9 of the specification) and from natural sources (Example 3 of the specification). The specific biological activities of human metalloproteinase inhibitor are supported in the specification at page 10, lines 8 to 9, Example 6, and Example 1, section 2.

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